

Please type a plus sign (+) inside this box → ☐

PTO/SB/01 (12-97)  
Approved for use through 9/30/00. OMB 0651-0032  
Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

<b>DECLARATION FOR UTILITY OR DESIGN PATENT APPLICATION</b> <b>(37 CFR 1.63)</b>  <input type="checkbox"/> Declaration Submitted with Initial Filing      OR <input checked="" type="checkbox"/> Declaration Submitted after Initial Filing (surcharge (37 CFR 1.16 (e)) required)	<b>Attorney Docket Number</b>	AGL 100
	<b>First Named Inventor</b>	Joseph C. Kaufman
	<b>COMPLETE IF KNOWN</b>	
	<b>Application Number</b>	09 / 637,751
	<b>Filing Date</b>	August 11, 2000
	<b>Group Art Unit</b>	1645
<b>Examiner Name</b>		

As a below named inventor, I hereby declare that:

My residence, post office address, and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

**BINARY ENCODED SEQUENCE TAGS**

the specification of which (Title of the Invention)

☐ is attached hereto  
OR

☒ was filed on (MM/DD/YYYY) 08/11/2000 as United States Application Number or PCT International

Application Number 09/637,751 and was amended on (MM/DD/YYYY) (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate, or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or of any PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YYYY)	Priority Not Claimed	Certified Copy Attached?	
				YES	NO
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

☐ Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto:

I hereby claim the benefit under 35 U.S.C. 119(e) of any United States provisional application(s) listed below.

Application Number(s)	Filing Date (MM/DD/YYYY)	<input type="checkbox"/> Additional provisional application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto.
60/148,870	August 13, 1999	

[Page 1 of 2]

Burden Hour Statement: This form is estimated to take 0.4 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

AGL 100  
15367/2

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Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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**DECLARATION — Utility or Design Patent Application**

I hereby claim the benefit under 35 U.S.C. 120 of any United States application(s), or 365(c) of any PCT international application designating the United States of America, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of 35 U.S.C. 112, I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application.

U.S. Parent Application or PCT Parent Number	Parent Filing Date (MM/DD/YYYY)	Parent Patent Number (if applicable)
09/544,713	April 6, 2000	

☐ Additional U.S. or PCT international application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto.

As a named inventor, I hereby appoint the following registered practitioner(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith: ☐ Customer Number  → ☐ Place Customer Number Bar Code Label here

☒ Registered practitioner(s) name/registration number listed below

Name	Registration Number	Name	Registration Number
Patrea L. Pabst	31,284		
Robert A. Hodges	41,074		
Kevin W. King	42,737		

☐ Additional registered practitioner(s) named on supplemental Registered Practitioner Information sheet PTO/SB/02C attached hereto.

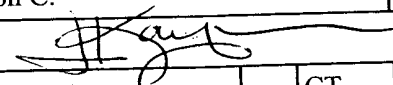
Direct all correspondence to: ☐ Customer Number  OR ☐ Correspondence address below

Name	Patrea L. Pabst				
Address	Arnall Golden & Gregory, LLP				
Address	2800 One Atlantic Center, 1201 West Peachtree Street				
City	Atlanta	State	GA	ZIP	30309-3450
Country	United States	Telephone	(404)873-8794	Fax	(404)873-8795

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Name of Sole or First Inventor: ☐ A petition has been filed for this unsigned inventor

Given Name (first and middle (if any))	Family Name or Surname
Joseph C.	Kaufman

Inventor's Signature				Date	8/4/00
Residence: City	Hamden	State	CT	Country	USA
Post Office Address	24 Farmington Road				
Post Office Address					
City	Hamden	State	CT	ZIP	06518
				Country	USA

☒ Additional inventors are being named on the 2 supplemental Additional Inventor(s) sheet(s) PTO/SB/02A attached hereto

Filed: August 11, 2000

BINARY ENCODED SEQUENCE TAGS

Please type a plus sign (+) inside this box → ☐

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## DECLARATION

ADDITIONAL INVENTOR(S)  
Supplemental Sheet  
Page 1 of 2

Name of Additional Joint Inventor, if any:

☐ A petition has been filed for this unsigned inventor

Given Name (first and middle [if any])

Family Name or Surname

Matthew E.

Roth

Inventor's  
Signature

*Matthew E. Roth*

10/3/00  
Date

Residence: City

Branford

State

CT

Country

USA

Citizenship

US

Post Office Address

20 Medley Lane

Post Office Address

City

Branford

State

CT

ZIP

06405

Country

USA

Name of Additional Joint Inventor, if any:

☐ A petition has been filed for this unsigned inventor

Given Name (first and middle [if any])

Family Name or Surname

Paul M.

Lizardi

Inventor's  
Signature

*Paul M. Lizardi*

Date

10/4/00

Residence: City

Wallingford

State

CT

Country

USA

Citizenship

US

Post Office Address

7 Stoney Brook Road

Post Office Address

City

Wallingford

State

CT

ZIP

06492

Country

USA

Name of Additional Joint Inventor, if any:

☐ A petition has been filed for this unsigned inventor

Given Name (first and middle [if any])

Family Name or Surname

Li

Feng

Inventor's  
Signature

*Li Feng*

Date

10/4/00

Residence: City

Hamden

State

CT

Country

USA

Citizenship

CN

Post Office Address

1164 Whitney Avenue, Apt. A

Post Office Address

City

Hamden

State

CT

ZIP

06517

Country

USA

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15367/2

Filed: August 11, 2000

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## DECLARATION

### ADDITIONAL INVENTOR(S) Supplemental Sheet

Page 2 of 2

Name of Additional Joint Inventor, if any:

☐ A petition has been filed for this unsigned inventor

Given Name (first and middle [if any])

Family Name or Surname

Darin R.

Latimer

Inventor's  
Signature

*Darin Latimer*

Date

Oct 4, 2000

Residence: City

East Haven

State

CT

Country

USA

Citizenship

CA

Post Office Address

15 Cutters Lookout

Post Office Address

City

East Haven

State

CT

ZIP

06513

Country

USA

Name of Additional Joint Inventor, if any:

☐ A petition has been filed for this unsigned inventor

Given Name (first and middle [if any])

Family Name or Surname

Inventor's  
Signature

Date

Residence: City

State

Country

Citizenship

Post Office Address

Post Office Address

City

State

ZIP

Country

Name of Additional Joint Inventor, if any:

☐ A petition has been filed for this unsigned inventor

Given Name (first and middle [if any])

Family Name or Surname

Inventor's  
Signature

Date

Residence: City

State

Country

Citizenship

Post Office Address

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FORM PTO-1619A  
Expires 06/30/99  
OMB 0651-0027

10-27-2000

U.S. Department of Commerce  
Patent and Trademark Office  
**PATENT**



101497801

**RECORDATION FORM COVER SHEET  
PATENTS ONLY**

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**Submission Type**

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Document ID#
- ☐ Correction of PTO Error  
Reel #  Frame #
- ☐ Corrective Document  
Reel #  Frame #

**Conveyance Type**

- ☒ Assignment ☐ Security Agreement
- ☐ License ☐ Change of Name
- ☐ Merger ☐ Other
- U.S. Government**  
(For Use ONLY by U.S. Government Agencies)
- ☐ Departmental File ☐ Secret File

**Conveying Party(ies)**

☐ Mark if additional names of conveying parties attached

Execution Date  
Month Day Year  
 10052000

Name (line 1)  Agilix Corporation

Name (line 2)

Execution Date  
Month Day Year

**Second Party**

Name (line 1)

Name (line 2)

09637751

**Receiving Party**

☐ Mark if additional names of receiving parties attached

Name (line 1)  Yale University

Name (line 2)

☐ If document to be recorded is an assignment and the receiving party is not domiciled in the United States, an appointment of a domestic representative is attached. (Designation must be a separate document from Assignment.)

Address (line 1)  451 College Street

Address (line 2)

Address (line 3)  New Haven

Connecticut

06511

City

State/Country

Zip Code

**Domestic Representative Name and Address**

Enter for the first Receiving Party only.

Name

Address (line 1)

Address (line 2)

Address (line 3)

Address (line 4)

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Mail documents to be recorded with required cover sheet(s) information to: AGL 100 15367/2  
Commissioner of Patents and Trademarks, Box Assignments, Washington, D.C. 20231

**Correspondent Name and Address**

Area Code and Telephone Number

(404) 873-8794

Name Patrea L. Pabst, Esq.

Address (line 1) Arnall Golden & Gregory, LLP

Address (line 2) 2800 One Atlantic Center

Address (line 3) 1201 West Peachtree Street

Address (line 4) Atlanta, GA 30309-3450

**Pages**

Enter the total number of pages of the attached conveyance document including any attachments.

# 2

**Application Number(s) or Patent Number(s)**

☐ Mark if additional numbers attached

Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the same property).

**Patent Application Number(s)**

**Patent Number(s)**

09637751

If this document is being filed together with a new Patent Application, enter the date the patent application was signed by the first named executing inventor.

Month Day Year

**Patent Cooperation Treaty (PCT)**

Enter PCT application number only if a U.S. Application Number has not been assigned.

PCT

PCT

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PCT

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PCT

**Number of Properties**

Enter the total number of properties involved.

# 1

**Fee Amount**

Fee Amount for Properties Listed (37 CFR 3.41): \$ 40.00

Method of Payment:  
Deposit Account

Enclosed ☒

Deposit Account ☒

(Enter for payment by deposit account or if additional fees can be charged to the account.)

Deposit Account Number:

# 01-2507

Authorization to charge additional fees:

Yes

☒

No

☐

**Statement and Signature**

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Charges to deposit account are authorized, as indicated herein.

Robert A. Hodges

Name of Person Signing

Reg. No.: 41,074

Signature

Date

10/11/00

## ASSIGNMENT

Agilix Corporation, a corporation of the State of Delaware, with its principal place of business at 2 Church Street South, Suite 401, New Haven, Connecticut 06519, in consideration of ten dollars and other valuable consideration paid to it by Yale University, a corporation of the State of Connecticut (the "Corporation"), having its principal place of business at 451 College Street, New Haven, Connecticut 06511, the receipt of which is hereby acknowledged, does hereby sell, assign and transfer unto said Corporation, its successors and assigns, its entire right, title and interest for the United States of America, and its territories and all foreign countries and jurisdictions, including all rights of priority under the International Convention for the Protection of Industrial Property, in a certain invention or improvement in "*Binary Encoded Sequence Tags*" described in U.S. Serial No. 09/637,751 filed in the United States Patent and Trademark Office on August 11, 2000, by Joseph C. Kaufman, Matthew E. Roth, Paul M. Lizardi, Li Feng, and Darin R. Latimer, which application is a continuation-in-part of U.S. Application Serial No. 09/544,713 filed in the United States Patent and Trademark Office on April 6, 2000, and which application claims priority to U.S. Provisional Application Serial No. 60/148,870 filed in the United States Patent and Trademark Office on August 13, 1999, and in all Letters Patent of the United States and its territories and all foreign countries and jurisdictions which may or shall be granted on said invention, or any parts thereof, or on said application, or any provisional, divisional, continuation, continuation-in-part, reissue, or other applications based in whole or in part thereon. And Agilix Corporation agrees, for itself and its successors and assigns, with said Corporation and its successors and assigns, but at its or their expense or charges, hereafter to execute all applications, amended specifications, deeds or other instruments, and to do all acts necessary or proper to secure the grant of Letters Patent in the United States and its territories and in all other foreign countries and jurisdictions to said Corporation, with specifications and claims in such form as shall be approved by the counsel of said Corporation, and to vest and confirm in said Corporation, its successors and assigns, the legal title to all such patents.

Title: "Binary Encoded Sequence Tags"  
By: Joseph C. Kaufman, Matthew E. Roth,  
Paul M. Lizardi, Li Feng, and Darin R. Latimer  
Filed: August 11, 2000  
ASSIGNMENT

And Agilix Corporation does hereby authorize and request the Commissioner of Patents and Trademarks of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said Corporation, its successors and assigns.

WITNESS my hand and seal this 5<sup>TH</sup> day of October, 2000.

AGILIX CORPORATION

By: [Signature]

Name: MARTIN J. MATTESSICH

Title: PRESIDENT

State of Connecticut

County of New Haven } New Haven

Then personally appeared the above named Martin Mattessich authorized agent/representative empowered to act on behalf of assignor Agilix Corporation, and acknowledged the foregoing instrument to be his/her free act and deed, before me this 5<sup>TH</sup> day of October, 2000.

[Signature]  
Notary Public

My Commission expires: March 31, 2003

Jo-Ann Vitti D'Agostino  
Notary Public  
My Commission Expires March 31, 2003



10-16-00

FORM PTO-1619A  
Expires 06/30/99  
OMB 0651-0027

10-27-2000



101497803

U.S. Department of Commerce  
Patent and Trademark Office  
**PATENT**

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## Submission Type

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- ☐ Resubmission (Non-Recordation)  
Document ID#
- ☐ Correction of PTO Error  
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- ☐ Corrective Document  
Reel #  Frame #

## Conveyance Type

- ☒ Assignment ☐ Security Agreement
- ☐ License ☐ Change of Name
- ☐ Merger ☐ Other
- U.S. Government**  
(For Use ONLY by U.S. Government Agencies)
- ☐ Departmental File ☐ Secret File

## Conveying Party(ies)

☐ Mark if additional names of conveying parties attached

Execution Date  
Month Day Year  
 10042000

Name (line 1)  Lizardi, Paul M.

Name (line 2)

## Second Party

Name (line 1)

Name (line 2)

Execution Date  
Month Day Year

09677951

## Receiving Party

☐ Mark if additional names of receiving parties attached

Name (line 1)  Yale University

Name (line 2)

Address (line 1)  451 College Street

Address (line 2)

Address (line 3)  New Haven

Connecticut

State/Country

06511

Zip Code

☐ If document to be recorded is an assignment and the receiving party is not domiciled in the United States, an appointment of a domestic representative is attached. (Designation must be a separate document from Assignment.)

## Domestic Representative Name and Address

Enter for the first Receiving Party only.

Name

Address (line 1)

Address (line 2)

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Commissioner of Patents and Trademarks, Box Assignments, Washington, D.C. 20231

**Correspondent Name and Address**

Area Code and Telephone Number

Name

Address (line 1)

Address (line 2)

Address (line 3)

Address (line 4)

**Pages**

Enter the total number of pages of the attached conveyance document including any attachments.

#

**Application Number(s) or Patent Number(s)**

☐ Mark if additional numbers attached

Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the same property).

**Patent Application Number(s)**

**Patent Number(s)**

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Month Day Year

**Patent Cooperation Treaty (PCT)**

Enter PCT application number only if a U.S. Application Number has not been assigned.

PCT

PCT

PCT

PCT

PCT

PCT

**Number of Properties**

Enter the total number of properties involved.

#

**Fee Amount**

Fee Amount for Properties Listed (37 CFR 3.41): \$

Method of Payment:  
Deposit Account

Enclosed ☒

Deposit Account ☒

(Enter for payment by deposit account or if additional fees can be charged to the account.)

Deposit Account Number:

#

Authorization to charge additional fees:

Yes

☒

No

☐

**Statement and Signature**

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Charges to deposit account are authorized, as indicated herein.

Robert A. Hodges

Name of Person Signing

Reg. No.: 41,074

Signature

Date

10/11/00

## ASSIGNMENT

I, Paul M. Lizardi of 7 Stoney Brook Road, Wallingford, Connecticut 06492, in consideration of ten dollars and other valuable consideration paid to me by Yale University, a corporation of the State of Connecticut, having its principal place of business at 451 College Street, New Haven, Connecticut 06511, the receipt of which is hereby acknowledged, do hereby sell, assign and transfer unto said Yale University, its successors and assigns, my entire right, title and interest for the United States of America, and its territories and all foreign countries and jurisdictions, including all rights of priority under the International Convention for the Protection of Industrial Property, in a certain invention or improvement in "*Binary Encoded Sequence Tags*" described in U.S. Serial No. 09/637,751 filed in the United States Patent and Trademark Office on August 11, 2000, by Joseph C. Kaufman, Matthew E. Roth, Paul M. Lizardi, Li Feng, and Darin R. Latimer, which application is a continuation-in-part of U.S. Application Serial No. 09/544,713 filed in the United States Patent and Trademark Office on April 6, 2000, and which application claims priority to U.S. Provisional Application Serial No. 60/148,870 filed in the United States Patent and Trademark Office on August 13, 1999, and in all Letters Patent of the United States and its territories and all foreign countries and jurisdictions which may or shall be granted on said invention, or any parts thereof, or on said application, or any provisional, divisional, continuation, continuation-in-part, reissue, or other applications based in whole or in part thereon. And I agree, for myself and my executor and administrator, with said corporation and its successors and assigns, but at its or their expense or charges, hereafter to execute all applications, amended specifications, deeds or other instruments, and to do all acts necessary or proper to secure the grant of Letters Patent in the United States and its territories and in all other foreign countries and jurisdictions to said corporation, with specifications and claims in such form as shall be approved by the counsel of said corporation, and to vest and confirm in said corporation, its successors and assigns, the legal title to all such patents.

Title: "Binary Encoded Sequence Tags"  
By: Joseph C. Kaufman, Matthew E. Roth,  
Paul M. Lizardi, Li Feng, and Darin R. Latimer  
Filed: August 11, 2000  
ASSIGNMENT

And I do hereby authorize and request the Commissioner of Patents and Trademarks of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said corporation, its successors and assigns.

WITNESS my hand and seal this 4TH day of October, 2000.

Paul M. Lizardi

Paul M. Lizardi

State of Connecticut

County of New Haven

New Haven

Then personally appeared the above named Paul M. Lizardi and acknowledged the foregoing instrument to be his free act and deed, before me this 4TH day of October, 2000.

Jo-Ann V. D'Agostino  
Notary Public

My Commission expires: March 31, 2003

Jo-Ann Vitti D'Agostino  
Notary Public  
My Commission Expires March 31, 2003

PAULA MCCRAY, EXAMINER  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS

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10-27-2000

U.S. Department of Commerce  
Patent and Trademark Office  
**PATENT**



101497802

RECORDATION FORM  
**PATENTS ONLY**

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TO: The Commissioner of Patents and Trademarks: Please record the attached original document(s) or copy(ies).

**Submission Type**

- ☒ New
- ☐ Resubmission (Non-Recordation)  
Document ID#
- ☐ Correction of PTO Error  
Reel #  Frame #
- ☐ Corrective Document  
Reel #  Frame #

**Conveyance Type**

- ☒ Assignment ☐ Security Agreement
- ☐ License ☐ Change of Name
- ☐ Merger ☐ Other
- U.S. Government**  
(For Use ONLY by U.S. Government Agencies)
- ☐ Departmental File ☐ Secret File

**Conveying Party(ies)**

☒ Mark if additional names of conveying parties attached

Execution Date  
Month Day Year  
10042000

Name (line 1) Kaufman, Joseph C.

Name (line 2)

**Second Party**

Name (line 1) Roth, Matthew E.

Name (line 2)

Execution Date  
Month Day Year  
10042000

09637751

**Receiving Party**

☐ Mark if additional names of receiving parties attached

Name (line 1) Agilix Corporation

Name (line 2)

Address (line 1) 2 Church Street South, Suite 401

Address (line 2)

Address (line 3) New Haven

Connecticut

06519

City

State/Country

Zip Code

☐ If document to be recorded is an assignment and the receiving party is not domiciled in the United States, an appointment of a domestic representative is attached. (Designation must be a separate document from Assignment.)

**Domestic Representative Name and Address**

Enter for the first Receiving Party only.

Name

Address (line 1)

Address (line 2)

Address (line 3)

Address (line 4)

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Mail documents to be recorded with required cover sheet(s) information to: AGL 100 15367/2  
Commissioner of Patents and Trademarks, Box Assignments, Washington, D.C. 20231

**Correspondent Name and Address**

Area Code and Telephone Number **(404) 873-8794**

Name **Patrea L. Pabst, Esq.**

Address (line 1) **Arnall Golden & Gregory, LLP**

Address (line 2) **2800 One Atlantic Center**

Address (line 3) **1201 West Peachtree Street**

Address (line 4) **Atlanta, GA 30309-3450**

**Pages**

Enter the total number of pages of the attached conveyance document  
including any attachments.

# **5**

**Application Number(s) or Patent Number(s)**

☐ Mark if additional numbers attached

Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the same property).

**Patent Application Number(s)**

**09637751**

**Patent Number(s)**

If this document is being filed together with a new Patent Application, enter the date the patent application was signed by the first named executing inventor.

Month Day Year

**Patent Cooperation Treaty (PCT)**

Enter PCT application number  
only if a U.S. Application Number  
has not been assigned.

PCT

PCT

PCT

PCT

PCT

PCT

**Number of Properties**

Enter the total number of properties involved.

# **1**

**Fee Amount**

Fee Amount for Properties Listed (37 CFR 3.41): \$ **40.00**

Method of Payment:  
Deposit Account

Enclosed ☒

Deposit Account ☒

(Enter for payment by deposit account or if additional fees can be charged to the account.)

Deposit Account Number:

# **01-2507**

Authorization to charge additional fees:

Yes

☒

No

☐

**Statement and Signature**

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Charges to deposit account are authorized, as indicated herein.

**Robert A. Hodges**

Name of Person Signing

Reg. No.: 41,074

Signature

Date

**10/11/00**

CORDATION FORM COVER SHEET  
CONTINUATION  
PATENTS ONLY

U.S. Department of Commerce  
Patent and Trademark Office  
PATENT

Conveying Party(ies)

☐ Mark if additional names of conveying parties attached

Enter additional Conveying Parties

Name (line 1) Feng, Li

Execution Date  
Month Day Year

10042000

Name (line 2)

Execution Date  
Month Day Year

Name (line 1) Latimer, Darin R.

10042000

Name (line 2)

Execution Date  
Month Day Year

Name (line 1)

Name (line 2)

Receiving Party(ies)

☐ Mark if additional names of receiving parties attached

Enter additional Receiving Party(ies)

Name (line 1)

☐ If document to be recorded is an assignment and the receiving party is not domiciled in the United States, an appointment of a domestic representative is attached. (Designation must be a separate document from Assignment.)

Name (line 2)

Address (line 1)

Address (line 2)

Address (line 3)

City

State/Country

Zip Code

Name (line 1)

Name (line 2)

Address (line 1)

Address (line 2)

Address (line 3)

City

State/Country

Zip Code

☐ If document to be recorded is an assignment and the receiving party is not domiciled in the United States, an appointment of a domestic representative is attached. (Designation must be a separate document from Assignment.)

Application Number(s) or Patent Number(s)

☐ Mark if additional numbers attached

Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the same property).

Patent Application Number(s)

Patent Number(s)

09637751



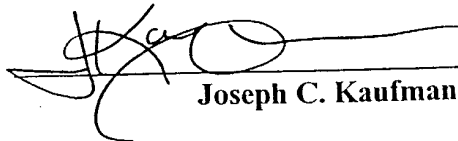
## ASSIGNMENT

We, Joseph C. Kaufman of 24 Farmington Road, Hamden, Connecticut 06518, Matthew E. Roth of 20 Medley Lane, Branford, Connecticut 06405, Li Feng of 1164 Whitney Avenue, Apt. A, Hamden, Connecticut 06517, and Darin R. Latimer of 15 Cutters Lookout, East Haven, Connecticut 06513, in consideration of ten dollars and other valuable consideration paid to us by Agilix Corporation, a corporation of the State of Delaware, having its principal place of business at 2 Church Street South, Suite 401, New Haven, Connecticut 06519, the receipt of which is hereby acknowledged, do hereby sell, assign and transfer unto said Agilix Corporation, its successors and assigns, our entire right, title and interest for the United States of America, and its territories and all foreign countries and jurisdictions, including all rights of priority under the International Convention for the Protection of Industrial Property, in a certain invention or improvement in "*Binary Encoded Sequence Tags*" described in U.S. Serial No. 09/637,751 filed in the United States Patent and Trademark Office on August 11, 2000, by Joseph C. Kaufman, Matthew E. Roth, Paul M. Lizardi, Li Feng, and Darin R. Latimer, which application is a continuation-in-part of U.S. Application Serial No. 09/544,713 filed in the United States Patent and Trademark Office on April 6, 2000, and which application claims priority to U.S. Provisional Application Serial No. 60/148,870 filed in the United States Patent and Trademark Office on August 13, 1999, and in all Letters Patent of the United States and its territories and all foreign countries and jurisdictions which may or shall be granted on said invention, or any parts thereof, or on said application, or any provisional, divisional, continuation, continuation-in-part, reissue, or other applications based in whole or in part thereon. And we agree, for ourselves and our executors and administrators, with said corporation and its successors and assigns, but at its or their expense or charges, hereafter to execute all applications, amended specifications, deeds or other instruments, and to do all acts necessary or proper to secure the grant of Letters Patent in the United States and its territories and in all other foreign countries and jurisdictions to said corporation, with specifications and claims in such form as shall be approved by the counsel of said corporation, and to vest and confirm in said corporation, its successors and assigns, the legal title to all such patents.

Title: "Binary Encoded Sequence Tags"  
By: Joseph C. Kaufman, Matthew E. Roth,  
Paul M. Lizardi, Li Feng, and Darin R. Latimer  
Filed: August 11, 2000  
ASSIGNMENT

And we do hereby authorize and request the Commissioner of Patents and Trademarks of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said corporation, its successors and assigns.

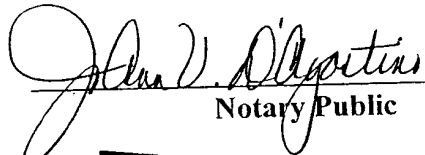
WITNESS my hand and seal this 4<sup>TH</sup> day of October, 2000.

  
Joseph C. Kaufman

State of Connecticut

County of New Haven } New Haven

Then personally appeared the above named Joseph C. Kaufman and acknowledged the foregoing instrument to be his free act and deed, before me this 4<sup>TH</sup> day of October, 2000.

  
Notary Public

My Commission expires: March 31, 2003

Jo-Ann Vitti D'Agostino  
Notary Public  
My Commission Expires March 31, 2003

Title: "Binary Encoded Sequence Tags"  
By: Joseph C. Kaufman, Matthew E. Roth,  
Paul M. Lizardi, Li Feng, and Darin R. Latimer  
Filed: August 11, 2000  
ASSIGNMENT

WITNESS my hand and seal this 4<sup>TH</sup> day of October, 2000.

Matthew E. Roth  
Matthew E. Roth

State of Connecticut

County of New Haven

New Haven

Then personally appeared the above named Matthew E. Roth and acknowledged the foregoing instrument to be his free act and deed, before me this 4<sup>TH</sup> day of October, 2000.

JoAnn Vitti D'Agostino  
Notary Public

My Commission expires: March 31, 2003

JoAnn Vitti D'Agostino  
Notary Public  
My Commission Expires March 31, 2003

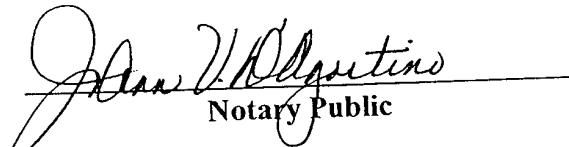
Title: "Binary Encoded Sequence Tags"  
By: Joseph C. Kaufman, Matthew E. Roth,  
Paul M. Lizardi, Li Feng, and Darin R. Latimer  
Filed: August 11, 2000  
ASSIGNMENT

WITNESS my hand and seal this 4<sup>TH</sup> day of October, 2000.

  
Li Feng

State of ~~New York~~ Connecticut,  
County of New Haven New Haven

Then personally appeared the above named Li Feng and acknowledged the  
foregoing instrument to be his/her free act and deed, before me this 4<sup>TH</sup> day of  
October, 2000.

  
Notary Public

My Commission expires: March 31, 2003

Jo-Ann Vitti D'Agostino  
Notary Public  
My Commission Expires March 31, 2003

Title: "Binary Encoded Sequence Tags"  
By: Joseph C. Kaufman, Matthew E. Roth,  
Paul M. Lizardi, Li Feng, and Darin R. Latimer  
Filed: August 11, 2000  
ASSIGNMENT

WITNESS my hand and seal this 4TH day of October, 2000.

Darin Latimer  
Darin R. Latimer

State of Connecticut

County of New Haven New Haven

Then personally appeared the above named Darin R. Latimer and acknowledged the foregoing instrument to be his free act and deed, before me this 4TH day of October, 2000.

Jo Ann V. D'Agostino  
Notary Public

My Commission expires: March 31, 2003

Jo Ann Vitti D'Agostino  
Notary Public  
My Commission Expires March 31, 2003

FORM PTO-1595  
(Revised 6-93)

U.S. DEPARTMENT OF COMMERCE  
Patent and Trademark Office

RECORDATION FORM COVER SHEET  
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TO THE HONORABLE COMMISSIONER OF PATENTS AND TRADEMARKS:

Please record the attached original documents or copy thereof.

ATTORNEY DOCKET NO.: 01173.0001U1

1. Name of conveying party(ies): Yale University

Additional names of conveying party(ies)  
attached?

☐ YES ☒ NO

2. Name and address of receiving party(ies):

Name: Yale University

Internal Address:

Street Address: 433 Temple Street

City: New Haven

State: Connecticut

Zip: 06520-8336

Additional name(s) and address(es) attached?

☒ YES ☐ NO

3. Nature of conveyance:

<input checked="" type="checkbox"/> Assignment	<input type="checkbox"/> Merger	<input type="checkbox"/> Other
<input type="checkbox"/> Security Agreement	<input type="checkbox"/> Change of Name	

Execution Date: October 17, 2001

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: (Filed August 11, 2000)

A. Patent Application No.(s): 09/637,751

B. Patent No.(s):

Additional numbers attached? ☐ YES ☒ NO

5. Name and address of party to whom correspondence concerning document should be mailed:

Robert A. Hodges, Ph.D.  
NEEDLE & ROSENBERG, P.C.  
Suite 1200, The Candler Building  
127 Peachtree Street, N.E.  
Atlanta, Georgia 30303-1811  
(404) 688-0770

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41):

\$40.00

☒ Enclosed

☐ Authorized to be charged to Deposit Account.

\*\*\*\*\*  
The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment, to Deposit Account No. 14-0629.  
\*\*\*\*\*

8. Deposit account number: 14-0629

(Attach duplicate copy of this form if paying by deposit account)

9. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Robert A. Hodges  
Reg. No. 41,074

Date \_\_\_\_\_

10/25/01

Total Number of Pages Including Cover Sheet, Attachments, and Document: 5

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: BOX ASSIGNMENT, Commissioner of Patents and Trademarks, Washington, D.C. 20231, on the date shown below.

Robert A. Hodges

Date \_\_\_\_\_

10/25/01

$\frac{1}{\sqrt{\pi}} \int_{-\infty}^{\infty} f(x) e^{-x^2} dx = f(0)$

Additional Name and address of receiving party(ies):

Name: Agilix Corporation

Internal Address:

Street Address: 2 Church Street South, Suite 401

City: New Haven

State: Connecticut

Zip: 06519

[illegible]



## ASSIGNMENT

Yale University, a corporation of the State of Connecticut, having its principal place of business at 433 Temple Street, New Haven, Connecticut 06520-8336, for good and valuable consideration does hereby sell, assign and transfer unto said Yale University and Agilix Corporation, jointly, its entire interest for the United States of America, and its territories and all foreign countries and jurisdictions, including all rights of priority under the International Convention for the Protection of Industrial Property, in a certain invention or improvement in "*Binary Encoded Sequence Tags*" described in U.S. Application Serial No. 09/637,751 filed in the United States Patent and Trademark Office on August 11, 2000, by Joseph C. Kaufman; Matthew E. Roth, Paul M. Lizardi, Li Feng, and Darin R. Latimer; and in all Letters Patent of the United States and its territories and all foreign countries and jurisdictions which may or shall be granted on said listed invention, or any parts thereof, or on said application, or any provisional, divisional, continuation, continuation-in-part, reissue, or other applications based in whole or in part thereon, and including the right to pursue and recover past damages for infringement thereof. And Yale University agrees, for itself and its successors and assigns, with said corporation and its successors and assigns, but at its or their expense or charges, hereafter to execute all applications, amended specifications, deeds or other instruments, and to do all acts necessary or property to secure the grant of Letters Patent, and to recover for patent infringement of the Patent, in the United States and its territories and in all other foreign countries and jurisdictions to said corporation, with specifications and claims in such form as shall be approved by the counsel of said corporation, and to vest and confirm in said corporation, its successors and assigns, the legal title to all such patents.

And Yale University does hereby authorize and request the Commissioner of Patents and Trademarks of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said corporation, its successors and assigns.

WITNESS my hand and seal this 17<sup>th</sup> day of October, 2001.

YALE UNIVERSITY

By: Jon Soderstrom

Title: Managing Director  
Office of Cooperative Research

State of Connecticut )

County of New Haven )

Then personally appeared the above-named Jon Soderstrom, authorized agent empowered to act on behalf of assignor Yale University, and acknowledged the foregoing instrument to be his/her free act and deed, before me this 17<sup>th</sup> day of October, 2001, 2001.

Alexis L. Flint  
Notary Public

My Commission Expires: . . .

**ALEXIS L. FLINT**  
**NOTARY PUBLIC**  
MY COMMISSION EXPIRES DEC. 31, 2004



UNITED STATES DEPARTMENT OF COMMERCE  
Patent and Trademark Office

ASSISTANT SECRETARY AND COMMISSIONER  
OF PATENTS AND TRADEMARKS  
Washington, D.C. 20231

DECEMBER 18, 2000

PTAS

ARNALL GOLDEN & GREGORY, LLP  
PATREA L. PABST, ESQ.  
2800 ONE ATLANTIC CENTER  
1201 WEST PEACHTREE STREET  
ATLANTA, GA 30309-3450



\*101497802A\*

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PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 10/16/2000

REEL/FRAME: 011173/0653  
NUMBER OF PAGES: 8

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:  
KAUFMAN, JOSEPH C.

DOC DATE: 10/04/2000

ASSIGNOR:  
ROTH, MATTHEW E.

DOC DATE: 10/04/2000

ASSIGNOR:  
FENG, LI

DOC DATE: 10/04/2000

ASSIGNOR:  
LATIMER, DARIN R.

DOC DATE: 10/04/2000

ASSIGNEE:  
AGILIX CORPORATION  
2 CHURCH STREET SOUTH  
SUITE 401  
NEW HAVEN, CONNECTICUT 06519

**RECEIVED**

DEC 27 2000

PATENT DEPT.

SERIAL NUMBER: 09637751  
PATENT NUMBER:

FILING DATE: 08/11/2000  
ISSUE DATE:

Docketed for AGL100  
By: J. Stines  
Date: 1-2-01



UNITED STATES DEPARTMENT OF COMMERCE  
Patent and Trademark Office  
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Washington, D.C. 20231

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PATREA L. PABST, ESQ.  
2800 ONE ATLANTIC CENTER  
1201 WEST PEACHTREE STREET  
ATLANTA, GA 30309-3450



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RECORDATION DATE: 10/16/2000

REEL/FRAME: 011173/0565  
NUMBER OF PAGES: 4

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:  
LIZARDI, PAUL M.

DOC DATE: 10/04/2000

ASSIGNEE:  
YALE UNIVERSITY  
451 COLLEGE STREET  
NEW HAVEN, CONNECTICUT 06511

SERIAL NUMBER: 09637951  
PATENT NUMBER:

FILING DATE: 08/11/2000  
ISSUE DATE:

JEEVON JONES, EXAMINER  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS

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DEC 28 2000

PATENT DEPT.

Docketed for AGL100  
By: J. Stines  
Date: 1-3-01



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Washington, D.C. 20231

DECEMBER 18, 2000

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PATREA L. PABST, ESQ.  
2800 ONE ATLANTIC CENTER  
1201 WEST PEACHTREE STREET  
ATLANTA, GA 30309-3450



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RECORDATION DATE: 10/16/2000

REEL/FRAME: 011173/0557  
NUMBER OF PAGES: 4

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:  
AGILIX CORPORATION

DOC DATE: 10/05/2000

ASSIGNEE:  
YALE UNIVERSITY  
451 COLLEGE STREET  
NEW HAVEN, CONNECTICUT 06511

SERIAL NUMBER: 09637751  
PATENT NUMBER:

FILING DATE: 08/11/2000  
ISSUE DATE:

DOROTHY RILEY, PARALEGAL  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS

RECEIVED

DEC 28 2000

PATENT DEPT.

Docketed for AGL106  
By: gattuso  
Date: 1-3-01